

Receiving Report

Date: 13/4/88

Batch No: M126160

Supplier: TY7081u11

Dart P/O: 20090

Packing Slip: Yes No
 Invoice: Yes No
 Receipt: Cash Cr

Release Note Attached: Yes No N/A
 Waybill Attached: Yes No N/A
 Shipment Complete: Yes No N/A
 QC6 Inspection N/A
 Work Order N/A
 N/A
 N/A

Discrepancies

Part Number	Description	Quantity Shipped	Quantity Received	Quantity Returned	Quantity Short	Comments
<u>M6061T6 S-080</u>		<u>336</u>	<u>0</u>	<u>0</u>	<u>336</u>	
<u>M6061T6 S-040</u>		<u>384</u>	<u>0</u>	<u>0</u>	<u>384</u>	<u>C</u>

Initials of receiver (if shipment OK) Level 12

Production/Admin:

Date: 13/4/88

Received/Costing:

Initial: AC

Location:

Purchase Order Receipt Listing

Friday, June 28, 2013 9:10:04 AM

All Vendors PO ID PO20295 Receipt Dates from 6/28/2013 to 6/28/2013 All Line Item Types
 All Item ID/GL/WOs All Rec. Employees All Currencies
 Grouped by Vendor ID

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID Reference/ Cert Std	PO U/M / Stock U/M	Required Date Required Qty	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
VendorID	Vendor Name	VC-COP001	Thyssenkrupp Materials CA Ltd	6/28/2013	6/28/2013	12.0000	\$2.41	0.0000	0	\$28.94
PO20295	1	M6061T6B0.500X02. f 000		12.0000	DESJ02		\$28.94	0.0000	0	\$28.94
CAD	No	6061-T6 Bar .500 x f 2.00								
		M126160								
	2	M6061T6B0.500X02. f 500		6/28/2013	6/28/2013	12.0000	\$2.89	0.0000	0	\$34.72
	No	6061-T6 Bar .500 x f 2.50		12.0000	DESJ02		\$34.72	0.0000	0	
		M126160								
	3	M6061T6B1.000X02. f 000		6/28/2013	6/28/2013	24.0000	\$4.44	0.0000	0	\$106.48
	No	6061-T6 Bar 1.00 x f 2.00		24.0000	DESJ02		\$106.48	0.0000	0	
		M126160								
	4	M6061T6B1.000X04. f 000		6/28/2013	6/28/2013	24.0000	\$8.63	0.0000	0	\$207.17
	No	6061-T6 Bar 1.00 x f 4.00		24.0000	DESJ02		\$207.17	0.0000	0	
		M126160								
	5	M6061T6B1.000X06. f 000		6/28/2013	6/28/2013	12.0000	\$13.91	0.0000	0	\$166.90
	No	6061T6 BAR 1.00 X f 6.00		12.0000	DESJ02		\$166.90	0.0000	0	
		M126160								
	6	M6061T6B1.250X04. f 500		6/28/2013	6/28/2013	24.0000	\$13.44	0.0000	0	\$322.53
	No	6061-T6 Bar 1.25 X f 4.50		24.0000	DESJ02		\$322.53	0.0000	0	
		M126160								

Purchase Order ID/ Curr Type	Line Nbr/ Insp Req	Project ID	Reference/ Description/ Cert Std	PO U/M / Stock U/M	Required Date	Recv Date/ Recv Emp	Recv Qty (PO U/M)	Cost Per Unit/ Recv Value	Inspected Qty/ Rejected Qty (PO U/M)	MRB Qty/ MRB Reject Qty	Book Amt
PO20295	7		VC-COP001	Thyssenkrupp Materials CA Ltd	6/28/2013	6/28/2013	12.0000	\$24.80	0.0000	0	\$297.62
CAD	No			M6061T6B2.000X04. f 500 6061T6 Bar 2.00 x 4.500 M126160			12.0000	DESJ02	\$297.62	0.0000	0

Total Received Quantity:

Total Qty to Inspect (PO U/M): 120.0000

Total Reject Quantity: 0.0000

Total Receipt Value: 0.0000

Total Balance Due Quantity: \$1,164.36

BILL OF LADING

No: PEC 829158
 Ship From: THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033
 Ship Date 26Jun13 at 7:52 From PFW
 Probill
 Via VIM TRANSER TRUCK
 FOB CONCORD
 Frt PREPAID
 Route 0-0 Manifest
 Vhicle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7
 Tel: 613-632-9577 Fax: 613-632-1053

Ship To: (1)

DART AEROSPACE
 1270 ABERDEEN ST
 HAWKESBURY, ON K6A 1K7
 Tel: 613-632-9577 Fax: 613-632-1053

BILL OF LADING

1) Our Order PEC-580848-1 Your PO # 20295
 ALUMINUM FLAT BAR 6061-T6511
 .50" x 2.00" X 144.0000"

Heat Number 201311221 Tag No 193047

Quantity 12 FT PCS 1 Wt LBS 14

MTR

2) Our Order PEC-580848-2 Your PO # 20295
 ALUMINUM FLAT BAR 6061-T6511
 .50" x 2.50" X 144.0000"

Heat Number 21288872 Tag No 193048

Quantity 12 FT PCS 1 Wt LBS 17

MTR

3) Our Order PEC-580848-3 Your PO # 20295
 ALUMINUM FLAT BAR 6061-T6511
 1.00" x 2.00" X 144.0000"

Heat Number 201305462 Tag No 193049

Quantity 24 FT PCS 2 Wt LBS .57

MTR

4) Our Order PEC-580848-4 Your PO # 20295
 ALUMINUM FLAT BAR 6061-T6511
 1.00" x 4.00" X 144.0000"

Heat Number 20028 Tag No 193050

Quantity 24 FT PCS 2 Wt LBS 114

MTR

5) Our Order PEC-580848-5 Your PO # 20295
 ALUMINUM FLAT BAR 6061-T6511
 1.00" x 6.00" X 144.0000"

Heat Number 201306967 Tag No 193051

Quantity 12 FT PCS 1 Wt LBS 85

MTR

Page: 1Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT
 ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY
 RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT
 MERCHANDISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

J. B. G. P. S.

BILL OF LADING

No: PEC 829158

Ship From:
 THYSSENKRUPP MATERIALS NA
 2821 LANGSTAFF ROAD
 CONCORD, ONTARIO L4K 5C6
 Tel: 905 669 9444 Fax: 905-738-9033

Ship Date 26Jun13 at 7:52 From PFW
 Probill
 Via VIM TRANSER TRUCK
 FOB CONCORD
 Frt PREPAID
 Route 0-0 Manifest
 Vhicle Trailer
 Slp STAN IVERS (905-532-1350)
 Sold To: (20115)
 DART AEROSPACE

Ship To: (1)
 DART AEROSPACE

BILL OF LADING

6) Our Order PEC-580848- 6 Your PO # 20295
 Part # OFFERING Rel #

ALUMINUM FLAT BAR 6061-T6511
 1.250" x 5.00" X 144.0000"

Heat Number Tag No
 201310704 193052

Quantity PCS Wt LBS
 24 FT 2 175

MTR

7) Our Order PEC-580848- 7 Your PO # 20295

ALUMINUM FLAT BAR 6061-T6511
 2.00" x 5.00" X 144.0000"

Heat Number Tag No
 Z00657003 193053

Quantity PCS Wt LBS
 12 FT 10 140

MTR

Tags PCS LBS
 TOTAL: 7 10 602

Heat Number
 20028
 201305462
 201306967
 201310704
 201311221
 21288872
 Z00657003

*** Chemical Analysis ***

6/3/13

MILL TEST REPORTS, PACKING SLIPS ARE TO SENT
 WITH MATERIAL AND FAXED TO THE CUSTOMER PRIOR
 TO SHIPPING.

ATTN: CHANTAL/LINDA

** ALL PACKING SLIPS MUST HAVE THE HEAT NUMBER **

** REFERENCED ON IT **

TOTAL ITEMS (1,2,3,4,5,6,7) 1 BDL G.W. 622 LBS

Page: 2Continued

TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT ÊTRE
 RAPPORTÉES IMMÉDIATEMENT.

ERRORS OR SHORTAGE MUST BE REPORTED IMMEDIATELY.

RETOUR DE MARCHANDISES AVEC NOTRE NUMÉRO D'APPROBATION SEULEMENT.
 MERCHANTISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER.

BILL OF FARE

A D T N G

NO: PEC 829158

Ship From:
THYSSENKRUPP MATERIALS NA
2821 LANGSTAFF ROAD
CONCORD, ONTARIO L4K 5C6
Tel: 905 669 9444 Fax: 905-738-9033

NO: FEC 829158
Ship Date 26Jun13 at 7:52 From PFW
Probill
Via VIM TRANSER TRUCK
FOB CONCORD
Frt PREPAID
Route 0-0 Manifest
Vhcle Trailer
Slp STAN IVERS (905-532-1350)
Sold To: (20115)
DART AEROSPACE

Ship To: (1)
DART AEROSPACE

BITTEN OF LADING

*CUSTOMER PICK-UP HRS AT THYSSENKRUPP MATERIALS NA
CONCORD, ONT.* *** 9:00 AM TO 4:00 PM ***

CONCORD, ONT. ********* TELE 800-926-2600 *********

***** TEL: 800-926-2600 *****

WE STOCK STAINLESS STEEL

* PLEASE LET

***PLEASE NOTE A \$25.00

Page: 3 ... Last

**TOUTES ERREURS ET/OU MARCHANDISES MANQUANTES DOIVENT Etre
RAPPORTÉES IMMÉDIATEMENT**

REPORTS OF SHORTAGE MUST BE REPORTED IMMEDIATELY

RETOUR DE MARCHANDISES AVEC NOTRE NUMERO D'APPROBATION SEULEMENT
MERCHANTISE MAY NOT BE RETURNED WITHOUT OUR APPROVAL NUMBER

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

50" x 2.00" x 144.0000" PART NO.

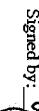


SERVICE CENTER METALS
5850 Quality Way
Prince George, VA 23875

PO/Rel 20295

We certify that this is a true copy of the report
furnished by the producer of the metal or data
resulting from tests made in approved labs.

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

Signed by: 
BL PHC-829158-001

26Jul13
Pg 1/1

BILL TO
ThyssenKrupp Materials NA
SHIP TO
ThyssenKrupp Materials NA, Toronto
Quantity Certified
1,270 lbs 90pcs

CUSTOMER PO# PEC-248822
CUSTOMER PART NUMBER RB0096
DESCRIPTION SCRB .500x2.000

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Mechanical Properties

Tests Lot No.

Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
5/31/13	min 42.60 max 47.20	min 39.10 max 44.50	min 11.20 max 17.35

Items produced and certified as 6061-T6511
also meet the requirements of 6061-T6


John W. Williams

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others	Total	Melt Source
2BU147	6061	0.61	0.12	0.20	0.03	0.85	0.06	0.01	0.01	98.11	0.05	0.15	100.00	Canada
2BU294	6061	0.63	0.11	0.20	0.03	0.85	0.06	0.01	0.01	98.10	0.05	0.15	100.00	Canada

Print Date: 6/3/2013

THYSSENKRUPP MATERIALS NA

DAIRY AEROSPACE

P08E01 2020

Certificate of Mill Test Results

B1 PEC-820158-002

3613

DARK ALUMINUM
ALUMINUM FLAT BAR 6061-T6511
.50" X 2.50" X 144.0000"

2. *CHICAGO, ILLINOIS*

Signed by: _____

TAKINO.

卷之三

Sapa Industrial Extrusions
53 POTTSVILLE STREET

Certified Inspection Report

Certified Inspection Report			
Sales Order Number	Line No.	Customer PO	Cert Number
1100598155	4	PEC-247872-4	SAP-A77768

Sapa Extrusions Inc., a Subsidiary of Sapa AB

Invoice To Customer
THYSSENKRUPP MATERIALS NA INC.
2221 LANGSTAFF ROAD
ATTN: ACCOUNT PAYABLE
CONCORD, ON - L4K-5C6
Ship To Customer:
THYSSENKRUPP MATERIALS NA INC.
2221 LANGSTAFF ROAD
CONCORD, ON - L4K5C6

Quantity shipped	Line shipped
2397	LR
	02-MAY-13
BL	Item No.
424721	003361823
Delivery Id	Item No. Rev
4422621	

Applicable Specifications, Revisions and Exemptions

COMPOSITION NOTE: The values for 'Others Fict' and 'Others Total' have met the limit specified in this certified inspection report. Remainder is Aluminum.

Signature And Title

is mercury, which may be found in certain organic materials. The data contained in this report was taken from manufacturers, importers, and exporters in accordance with, and has been found to meet, the applicable requirements described herein, including any mechanical properties shown on the face of this certification. Also, note that mercury is not a normal contaminant in aluminum alloys and neither is any of its compounds are used in the manufacture of our product. This certification is not to be reproduced in partial form without prior written approval of our Quality Assurance Dept.

Part Number	Quantity	UOM	Gross	Weight
612-PKG1928570	2178872			
612-PKG1928572	21391318	32	PCS	570
612-PKG1928572	21391318	30	PCS	535
612-PKG1928572	21391318	—	—	—
612-PKG1928572	21391820	34	PCS	605
				599

Composite Limits

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
ALUMINUM FLAT BAR 6061-T6511

.50" X 2.50" X 144.0000"
PART NO.

PO/Rel 20395

We certify that this is a true copy of the report
furnished by the producer of the metal or data
resulting from tests made in approved labs.

Signed by: 

Certificate of Mill Test Results

BL PEC-829158-002

2601m13
Pg 2/3

Sapa*

Sapa Industrial Extrusions
53 PERTHSHIRE STREET
CRESSONA, PA
17929-0187

Certified Inspection Report

Sales Order Number		Line No.	Customer PO		Page
1000598155		4	PEC 2478724		Page
					Page
Cert Number	SAP-A75768		Cert Creation Date	02-MAY-13	2 of 3
Cert Print Date	02-MAY-13				

Alloy	Si	Fe	Cr	Mn	Ni	C
6061	0.02	0.27	0.02	0.02	—	0.21
6061	0.40	0.80	—	0.70	0.15	0.40
6061	—	—	—	—	—	—
6061	—	0.15	—	0.05	—	0.05
6061	—	—	—	—	—	0.15

Composition Results

Heat/Cast	Si	Fe	Cr	Mn	Ni	C	Others Each	Others Total
3001735	0.02	0.27	0.02	0.04	0.92	0.05	0.02	—
Heat/Cast	Si	Fe	Cr	Mn	Ni	C	Others Each	Others Total
5030535	0.05	0.27	0.02	0.03	0.91	0.05	0.03	0.02
Heat/Cast	Si	Fe	Cr	Mn	Ni	C	Others Each	Others Total
5031246	0.06	0.24	0.02	0.03	0.91	0.05	0.02	0.02

Mechanical Property - Test Limits

Test Type	UTS - L	TYS - L	EL 4D-Long	
UTS - L	—	—	—	
KSI	—	—	—	
ksi	—	—	—	
UTS - L	44.4	46.3	41.6	
KSI	—	—	—	
ksi	—	—	—	
TYS - L	—	—	—	
EL 4D-Long	18.2	19.2	17.4	
ksi	44.3	46.0	41.4	
ksi	—	—	—	
ksi	43.4	—	—	
ksi	—	—	—	
ksi	17.4	—	18.5	
ksi	21393118	4	—	—

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

.50" X 2.50" X 144.0000"

PART NO.

PO/Rel 20295

Signed by: _____

Certificate of Mill Test Results

BL PEC-829158-002

26Jun13
Pg 3/3

We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Sapa

Sapa Industrial Extrusions
53 POTTSVILLE STREET
CRESSONA, PA
17929-0187

Certified Inspection Report

Sales Order Number	Line No.	Customer PO	Cert Number	Page
1100528125	4	DHC-247872-4	SAPA757768	Page 3 of 3

UTS - 1		TYS - 1		EL 4B-Lang	
UTS	UTS	KSI	KSI	PCT	PCT
41.8	46.9	41.7	43.8	19.6	20.1
TS511	21352929	4			

J. M. Dore

Cert Notes

Products manufactured with a T6511 temper also meet T6 temper requirements.

Yield strength has been determined by the 0.2% offset method.

All Mill Finish Alloys produced at Sapa Extrusions comply with 0.4% Maximum Lead per RoHS, with the exception of 6362 alloy

In accordance with EN 10204 Inspection Certificate Type 3.1

Machined in the USA or Other Qualified Countries as Defined by DARS 225.872.1

Made in USA

THYSSENKRUPP MATERIALS NA

DART AEROSPACE
ALUMINUM, FLAT BAR, 6061-T6511
1.00" x 2.00", X 144.0000, PART NO.

PO/Rel 20295
We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

Signed by: 

Certificate of Mill Test Results

BL PHC-829158-003
26Jun13

Pg 1/1

SERVICE CENTER METALS
5850 Quality Way
Prince George, VA 23875



CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

BILL TO	ThyssenKrupp Materials NA	MANIFEST NUMBER	185864	DATE NUMBER	MRB0477	DATE OF SHIPMENT	4/1/2013	OUR ORDER NUMBER	172591	ITEM	6
SHIP TO	ThyssenKrupp Materials NA, Toronto	CUSTOMER PO	PEC-247086	ALLOY/TEMPER	6061-T6511	Salesperson	David Schroeder	CERTIFICATION	ASTM-B221-12a StencilCont		
Quantity Certified	2,056 lbs	CUSTOMER PART NUMBER	MRB0477	DESCRIPTION	MQRB 1.000x2.000	SPECIFICATION	AMS-QQA-2008 - 1997				

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

Test	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
5	201305462	min 47.00 max 50.50	min 46.70 max 49.60	min 14.40 max 18.60


John W. 

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others	Total	Melt Source:
C07H0702	6061	0.70	0.28	0.32	0.10	0.92	0.10	0.01	0.02	97.55	0.05	0.15	United States of America	
C07H0703	6061	0.68	0.28	0.31	0.10	0.88	0.09	0.01	0.01	97.64	0.05	0.15	United States of America	

Print Date: 4/1/2013

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

1.00" X 4.00" X 144.000"

PART NO.

EXTRUDEX

AluminuM

MILL TEST REPORT

BILL TO	CONF. CODE:	DUE NUMBER		DATE OF SHIPMENT		EXTRUDEX ORDER NO.		MANIFEST NO.	
THYSSENKRUPP MATERIALS NA		1		S 4657		3/21/2013		155110 - 6	
SHIP TO	CUSTOMER PO	ALLOY		SALESMAN		284769			
THYSSENKRUPP MATERIALS NA	PEC-246198	6061		T6511		FORBES DODWELL		MADE IN CANADA	
SO DESCRIPTION	CUSTOMER PART NUMBER	PART DESCRIPTION		CERTIFICATION		MILL TEST ASTM B221-12			
1"X4" FB	1-1000-4000								

Mechanical Properties

Lot	Alloy	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation	Hardness	Conductivity
A.11	6061	Mar/20/13	42.6	38.5	13.90	87.9,88.5,88.2	13.06.28

Chemical Composition

Cast Number	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	B	Zr	Bi	Pb	Sn	Sr	Co	Al	Other
A.11 2028 6061	0.56	0.22	0.19	0.06	0.83	0.04	0.00	0.02	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	

David Natale
Quality Control Manager

We certify that the following extrusions have been quality inspected/tested and conforms to required dimensional and temper specifications.

PO/Ref 20295
We certify that this is a true copy of the report
furnished by the producer of the metal, or data
resulting from tests made in approved labs.

TEL: (416)745-4444 FAX:(416)745-0925 1-800-668-7210
411 CHRISLEA ROAD, WOODBRIDGE, ONTARIO, CANADA L4L 8N4
<http://www.extrudex.com>

Certificate of Mill Test Results

BL PEC-829158-004

26Jun13
Pg 1/1

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
1.00" x 6.00" x 144.0000"
PART NO.



SERVICE CENTER METALS
5850 Quality Way
Prince George, VA 23875

PO/Rel 20295

We certify that this is a true copy of the report
furnished by the producer or the metal or data
resulting from tests made in approved labs.

Signed by: 

Certificate of Mill Test Results

BL PEC-829158-005

260 unit3

Pg 1/1

CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown.

SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6511
also meet the requirements of 6061-T6

John W. Wiggins

TEST DATE	ULTIMATE TENSILE STRENGTH (KSI)	YIELD STRENGTH (KSI)	PERCENT ELONGATION
4/11/13	min 48.30 max 50.80	min 46.40 max 49.20	min 15.20 max 17.90

Mechanical Properties

TESTS

LOT NO.

4
201306967

Chemical Composition for Aluminum Alloy 6061

CAST NUMBER	ALLOY	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Each	Others	Total	Melt Source
0313147	6061	0.74	0.38	0.31	0.10	0.90	0.11	0.07	0.02	97.37	0.05	0.15	United States of America	
0313150	6061	0.76	0.35	0.32	0.10	0.86	0.11	0.07	0.02	97.41	0.05	0.15	United States of America	

Print Date: 4/12/2013

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511
1.250" x 5.00" x 144.000"

PART NO. OFFERING

PO/Rel 20295

We certify that this is a true copy of the report
furnished by the producer of the metal or data
resulting from tests made in approved labs.

Signed by: 

Certificate of Mill Test Results

BL PEC-829158-006

26Jun13
Pg 1/1

SERVICE CENTER METALS

5850 Quality Way

Prince George, VA 23875



CERTIFIED INSPECTION REPORT AND TEST RESULTS FOR EXTRUDED PRODUCTS

ITEM	ORDER NUMBER
3	177359

MANIFEST NUMBER	DATE NUMBER	DATE OF SHIPMENT	CERTIFICATION
191676	MRB1589	5/30/2013	ASTM-B221-12a StencilCont
Shp/TC	ALLOY/TEMPER		
ThyssenKrupp Materials NA, Toronto	6061-T6511		
Quantity Certified	CUSTOMER PART NUMBER	SALESPERSON	SPECIFICATION
712 lbs	MRB1589	David Schroeder	AMS-QQA-20018 - 1997
8 pcs	DESCRIPTION		
	MQRB 1.250x5.000		

We hereby certify that the material covered by this report has been inspected in accordance with the most recent certification revision, and has been found to meet the applicable requirements described herein, including any specifications forming a part of the description, and that samples representative of the material met the composition limits and had the mechanical properties shown. SCM extrusions are manufactured in the USA.

Items produced and certified as 6061-T6511 also meet the requirements of 6061-T6

Test	Test Date	Ultimate Tensile Strength (KSI)	Yield Strength (KSI)	Percent Elongation
2	5/24/13	min 46.80	max 48.40	min 45.00

201310704

Chemical Composition for Aluminum Alloy 6061

Cast Number	Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Al	Others	Total	Melt Source:
0513072	6061	0.72	0.35	0.32	0.09	0.91	0.10	0.08	0.02	97.41	0.05	United States of America
1112155	6061	0.72	0.39	0.31	0.10	0.86	0.10	0.07	0.03	97.42	0.05	United States of America

Print Date: 5/30/2013

THYSSENKRUPP MATERIALS NA

DART AEROSPACE

ALUMINUM FLAT BAR 6061-T6511

2.00" x 5.00" X 144.000"

PART NO.

PO/Ref 20295

We certify that this is a true copy of the report furnished by the producer of the metal, or data resulting from tests made in approved labs.

Certificate of Mill Test Results

BL PEC-829158-007

26Jun13

Pg 1/1

Signed by: *J*

KAISER
ALUMINUM
FABRICATED PRODUCTS

KAISER ALUMINUM
FABRICATED PRODUCTS, LLC
5205 KAISER DRIVE
KALAMAZOO, MI 49048

CERTIFIED TEST REPORT

<http://Online.KaiserAluminum.com>

CUSTOMER PO NUMBER:		CUSTOMER PART NUMBER:		PRODUCT DESCRIPTION:		
PEC-246395-6		ALREC00850		2.000 X 5.000 SC RECT BAR		
KAISER ORDER NUMBER:	LINE ITEM:	SHIP DATE:	KAISER LOT NUMBER:	ALLOY:	TEMPER:	
638613	006	03/05/2013	Z00657003	6061	T6511	
WEIGHT SHIPPED:	QUANTITY:	B/L NUMBER:	DIAM/DAF/THKNS:	WIDTH:	LENGTH:	
847.000 LB	6.000 PCS	605678			12.000 FT	
SHIP TO:		SOLD TO:				
THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA		THYSSENKRUPP MATERIALS NA 2821 LANGSTAFF ROAD CONCORD, ON L4K 5C6 CANADA				

Actual Physical Properties

REFERENCE	DASH#	SAMPLE #	UTS (KSI)	YTS (KSI)	ELONG%	HARDNESS	CONDUCT.	BEND
Z00657003	0001	1	46.4	42.9	15.3	RE 94	N/A	N/A

Chemical Composition (wt%), Aluminum Remainder

LIMITS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Pb	Bi	Zr	Ea	Tot
Maximum	0.80	0.70	0.40	0.15	1.20	0.35	0.25	0.15	NA	NA	NA	0.05	0.15
Minimum	0.40	0.00	0.15	0.00	0.80	0.04	0.00	0.03	NA	NA	NA	0.00	0.00
102424	.74	.29	.29	.09	.93	.09	.05	.03	.00	.00	.00	.01	.04

Applicable Requirements:

ASTM-B221-12 STENCILED ASME-SB221 1998 SECT II AMS-QQ-A-200/8 (2007) UNS#A96061
(T6511 also conforms to T6-not applicable to other tempers)

Miscellaneous Notes

MANUFACTURED IN USA MELTED IN USA
MERCURY IS NOT A NORMAL BACKGROUND ELEMENT IN ALUMINUM ALLOYS. NEITHER MERCURY NOR ANY OF ITS COMPOUNDS ARE UTILIZED BY KAISER ALUMINUM IN THE MANUFACTURE OF THIS MATERIAL.

CERTIFICATION

Kaiser Aluminum Fabricated Products, LLC hereby certifies that metal shipped under this order has been inspected and tested and found in conformance with applicable specifications forming a part of the description set forth in Kaiser's sales acknowledgement form. Any warranty is limited to that shown on Kaiser's general terms and conditions of sale. Test reports are on file, subject to examination.

Calvin Latting, Quality & Technology Manager

Calvin Latting

13-06-28

Plant Serial: 00080410
Kaiser Order Number: 638613
Line Item: 006



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO20295**

Purchase Order Date 6/24/2013

PO Print Date 6/25/2013

Page Number 1 of 3

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

FAXED
06/25/2013

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD

FOB Destination-Collect

REvised

Line Nbr	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	CD	Req Qty/ Unit of Measure	List Price	Disc %	Discounted Unit Price	Extended Price
			Promise Date						
1	M6061T6B0.500X02.000	6061-T6 Bar .500 x 2.00	6/28/2013 Yes		12.00 f				\$30.00
		MATERIAL: 6061-T6/T651/T6510/T6511/T62 ALUMINUM BAR AS PER QQA-225/8 OR AMS-QQ-A-225/8 OR AMS 4117/4128/4115/4116 OR QQ-A-200/8 OR AMS-QQ-A-200/8 OR AMS 4160 OR ASTM B211 OR ASTM B221	6/28/2013						
2	M6061T6B0.500X02.500	6061-T6 Bar .500 x 2.50	6/28/2013 Yes		12.00 f				\$36.00
		MATERIAL SPEC'S SAME AS ABOVE	6/28/2013						
3	M6061T6B1.000X02.000	6061-T6 Bar 1.00 x 2.00	6/28/2013 Yes		24.00 f				\$110.40
		MATERIAL SPEC'S SAME AS ABOVE	6/28/2013						

Note:



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO20295

Purchase Order Date 6/24/2013

PO Print Date 6/25/2013

Page Number 2 of 3

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name _____

Buyer Chantal Lavoie

Customer POID

Ship To Contact

Ship To Phone

Currency

Ship To Phone: _____

Currency CAD
FOR **Destinat.**

Line Total: \$110.40

4 M6061T6B1.000X04.000 6061-T6 Bar 1.00 x 4.00 6/28/2013 24.00 ✓ \$214.80
Yes f
MATERIAL SPEC'S SAME AS ABOVE 6/28/2013

Line Total: **\$214.80**

5 M6061T6B1.000X06.000 6061T6 BAR 1.00 X 6.00 6/28/2013 12.00 ✓ \$173.04
Yes f
MATERIAL SPEC'S SAME AS ABOVE 6/28/2013

Line Total: \$173.04

6 M6061T6B1.250X04.500 6061-T6 Bar 1.25 X 4.50 6/28/2013 24.00 ✓ \$334.40
Yes f
MATERIAL SPEC'S SAME AS ABOVE NOTE: 1.250" X 6/28/2013

Line Total: **\$334.40**

Note:

6/25/2013



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO20295**

Purchase Order Date 6/24/2013

PO Print Date 6/25/2013

Page Number 3 of 3

Order From : VC-COP001
THYSSENKRUPP MATERIALS CA LTD
O/A VPK METAL- C/O T27540/PO BOX 4275,POSTAL "A"
TORONTO, ON M5W 5V8
CA

Ship To : DART AEROSPACE LTD
1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

Contact Name
Vendor Phone 905 669 9444

Ship To Contact
Ship To Phone
Ship Via: Yours ppd
Ship Acct:

Buyer Chantal Lavoie
Customer POID
Customer Tax # 10127-2607
Terms Net 30
Currency CAD
FOB Destination-Collect

7 M6061T6B2.000X04.500 6061T6 Bar 2.00 x 4.500 6/28/2013 12.00 ✓
MATERIAL SPEC'S SAME AS ABOVE NOTE: 2.000" X 5.000" ACCEPTABLE 6/28/2013 f
143/8/24

Line Total: **\$308.57**

8 M6061T6S.080 6061-T6 .080 Sheet 6/28/2013 336.00
MATERIAL: 6061 T6/162 ALUMINUM SHEET AS PER QQ-A-250/11 OR AMS-QQ-A-250/11 OR AMS 4025/AMS 4027 OR ASTM B209 6/28/2013 sf

Line Total: **\$1,017.72**

9 M6061T6S.040 6061-T6 .040 Sheet 7/5/2013 384.00
MATERIAL SPEC'S SAME AS ABOVE 7/5/2013 sf

Line Total: **\$588.00**

PO Total: **\$2,812.93**

Note: Pricing listed above is as per contract agreement between Dart Aerospace and the respective manufacturer.
No substitution or deviation without consent.

Certificate of Conformity or Material Certification required YES NO

Change Nbr:

2

Change Date: 6/25/2013